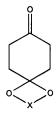
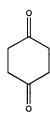
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CLAIMS OF THE APPLICATION:

1. (currently amended) A process for <u>preparing</u> preparation of a monoketal compound of the structure



said process comprising reacting 1,4-cyclohexanedione of the structure



with a diol of the structure HO-X-OH in a halogenated organic solvent in the presence of an acid catalyst, wherein X is a substituted or unsubstituted ethylene or propylene.

- 2. (currently amended) The process of claim 1, wherein said diol is selected from the group consisting of ethylene glycol, propylene glycol, neopentyl glycol, and or 1,3-propanediol.
- 3. (currently amended) The process of claim $\underline{2}$ 4, wherein said diol is neopentyl glycol of the structure HOCH₂C(CH₃)₂CH₂OH.
- (currently amended) The process of claim 3, further comprising

 a) converting said monoketal compound by <u>reductive amination</u> to an alkylamino ketal of the structure;

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and

b) reacting said alkylamino ketal with 4-carboxamidophenylhydrazine <u>to</u> <u>form frovatriptan.</u>

- 5. (original) The process of claim 1, wherein said halogenated organic solvent is a C_1 - C_3 haloalkane.
- 6. (original) The process of claim 5, wherein said C₁-C₃ haloalkane is selected from the group consisting of chloroform, dichloromethane, dichloroethane, carbon tetrachloride and mixtures thereof.
- 7. (currently amended) The process of claim $\underline{6}$ 5, wherein said C₁-C₃ haloalkane is dichloromethane.
- 8. (currently amended) The process of claim $\underline{6}$ 5, wherein said C_1 - C_3 haloalkane is chloroform.
- 9. (currently amended) The process of claim <u>3</u> 1, wherein the molar ratio of 1, 4-cyclohexanedione to <u>neopentyl glycol</u> 2, 2 dimethyl 1, 3 propanediol ranges from about 1:1 to about 1:4, <u>respectively</u>.
- 10. (currently amended) The process of claim <u>9</u> 4, wherein the molar ratio of 1, 4-cyclohexanedione to <u>neopentyl glycol</u> 2, 2-dimethyl-1, 3-propanediol ranges from about 1:1 to about 1:2, <u>respectively</u>.

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11. (currently amended) The process of claim <u>10</u>·1, wherein the molar ratio of 1, 4-cyclohexanedione to <u>neopentyl glycol</u> 2, 2-dimethyl-1, 3-propanediol is about 1:1, respectively.

- 12. (currently amended) The process of claim 1, wherein the weight/volume ratio of 1, 4-cyclohexanedione to said halogenated organic solvent ranges from about 1:1 to about 1:20, respectively.
- 13. (currently amended) The process of claim 12 1, wherein the weight/volume ratio of 1, 4-cyclohexanedione to said halogenated organic solvent is about 1:8, respectively.
- 14. (original) The process of claim 1, wherein the reacting step includes dissolving 1, 4-cyclohexanedione and said diol in said halogenated organic solvent and adding said acid catalyst to initiate the reaction.
- 15. (original) The process of claim 1, wherein said acid catalyst is selected from the group consisting of hydrochloric acid, p-toluenesulfonic acid, sulfuric acid, fumaric acid, phthalic acid, oxalic acid and mixtures thereof.
- 16. (currently amended) The process of claim <u>15</u> 4, wherein said acid catalyst is sulfuric acid.
- 17. (original) The process of claim 1, wherein said reaction is performed at a temperature of from about 25°C. to about 50°C.
- 18. (currently amended) The process of claim <u>17</u> 4, wherein said reaction is performed at a temperature of from about 25°C. to about 30°C.

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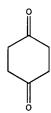
- 19. (original) The process of claim 1, further comprising removing said halogenated solvent to provide a crude residue; contacting said crude residue with an aliphatic or alicyclic hydrocarbon solvent; and removing solid impurities from the mixture.
- 20. (original) The process of claim 19, wherein said aliphatic or alicyclic hydrocarbon solvent is selected from the group consisting of petroleum ether, hexane, n-hexane, cyclohexane, n-heptane, cycloheptane and mixtures thereof.
- 21. (currently amended) The process of claim <u>20</u> 19, wherein said aliphatic or alicyclic hydrocarbon solvent is n-heptane.
- 22. (original) The process of claim 19, wherein the removal of by-product(s) is achieved by filtration.
- 23. (currently amended) The process of claim 22, further comprising cooling the mixture of the crude residue and the aliphatic or alicyclic hydrocarbon solvent to a temperature of from about 0°C. to about 25°C. before said filtration.
- 24. (currently amended) The process of claim 23, wherein said <u>residue</u> reaction mass is cooled to a temperature of about 0°C.-5°C.
- 25. (currently amended) A process for <u>preparing</u> the <u>preparation of</u> 1, 4-cyclohexanedione mono-2, 2-dimethyl trimethylene ketal, said process comprising:
- a) reacting 1, 4-cyclohexanedione and neopentyl glycol in dichloromethane or chloroform in the presence of sulfuric acid at about 25°C.-50°C.;
 - b) removing dichloromethane or chloroform to provide a crude residue;
- c) combining an aliphatic or alicyclic hydrocarbon solvent with said crude residue to form a mixture;
 - d) cooling said mixture to a temperature of about 0°C.-5°C.; and

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e) filtering the cooled mixture to remove undissolved impurities.

26. (new) A process for preparing a carbozole compound which comprises the steps of:

(a) reacting 1,4-cyclohexanedione of the structure



with a diol of the structure HO-X-OH in a halogenated organic solvent in the presence of an acid catalyst, wherein X is a substituted or unsubstituted ethylene or propylene, to form a monoketal compound of the structure:

b) converting the monoketal compound from step a) by reductive amination to an alkylamino ketal of the structure;

and

c) reacting the alkylamino ketal from step b) with 4-carboxamidophenylhydrazine to form the carbozole compound.

27. (new) The process of claim 26, wherein the diol is neopentyl glycol.